



Chlorine, Fluorine, Oxygen...Krytox™ Lubricants Are Safe for Use with Reactive Chemicals

Product Information

With a heritage of over 200 years in producing, handling, and safely transporting chemicals, Chemours knows from first-hand experience that chemical industry systems require lubricants that help support operational safety. Krytox™ performance lubricants do just that, with a broad selection of specially formulated synthetic oils and greases.

Krytox™ lubricants, including the NRT line of oils and greases, were developed to satisfy the special needs of the chemical industry. Krytox™ lubricant features include:

- Safe, non-reactive, nonflammable use with reactive chemicals
- Effective lubrication to extend equipment use-life and save maintenance
- No auto-ignition at temperatures up to 482 °C (900 °F) in oxygen
- No ignition at pressures up to 350 bar
- Non-toxic, non-corrosive, and compatible with most seal, O-ring, and valve polymers used in chemical manufacturing
- Maintain lubricity and stable viscosity throughout a wide range of temperatures in highly corrosive environments
- Chemically and biologically inert and silicone-free
- Unaffected and non-reactive to acidic or caustic cleaners, as well as disinfectants, steam, moisture, and high temperatures
- Approved for use in valves, fans, pumps, agitators, reactors, centrifuges, and other components

Independently studied and tested by companies and organizations, such as BOC, Air Liquide, BAM, NASA, and General Dynamics, Krytox™ lubricants have been confirmed as compatible for use with oxygen and other reactive chemicals.

Examples of Chlorine and Chemical-Related Applications

- Krytox™ 1506 vacuum pump fluid is used for improving the long-term reliability of pressure gauges on chlorine piping systems used in TiO₂ manufacturing
- Krytox™ GPL 105 oil is used to lubricate the moving parts of valves used to prevent leaks of TiCl₄, a toxic chemical
- The Chlorine Institute rates Krytox™ lubricants a "1" (safe for use) in chlorine and other chemical reactivity for both gas or liquid, wet or dry chlorine applications
- Krytox™ oil is used as a barrier fluid in pump and reactor seals to keep hazardous process fluids in the vessel
- Krytox™ GPL 204 grease is used to help improve the performance of anhydrous ammonia pumps by lubricating lip seals on positive displacement pumps; thereby, eliminating shaft wear and doubling seal life
- Krytox™ greases are typically used in bearing, valve, seal, and O-ring applications, and as a pipe thread sealant in reactive environments



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This information is not intended to provide guidance in selecting the appropriate product for your application. To ensure the best product for your application please contact our Technical Service Department at 1-800-992-2424 (in Canada please call 1-800-323-4621).

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